





**FIG. 3**

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graph TD
    Start([Start]) --> S1[Value of N = initial value]
    S1 --> S2{Does device associated with authentication number = N require polling?}
    S2 -- No --> S10{Is N last authentication number?}
    S2 -- Yes --> S3[Requesting device associated with authentication number = N to send input information data]
    S3 --> S4[Receiving data]
    S4 --> S5{Does input data represent appropriate data?}
    S5 -- No --> S10
    S5 -- Yes --> S6{Is application program being executed in connection with device associated with authentication number = N?}
    S6 -- No --> S8{Is new application program required to be activated?}
    S6 -- Yes --> S7[Input is reflected in application program]
    S7 --> S10
    S8 -- No --> S10
    S8 -- Yes --> S9[Activating new application program in connection with terminal apparatus and input/output devices associated with authentication number = N]
    S9 --> S10
    S10 -- Yes --> End([End])
    S10 -- No --> S11[Changing N to next number]
    S11 --> S2
```

The flowchart illustrates the process of polling a device associated with an authentication number N. It begins with a start terminal leading to step S1, where the value of N is set to its initial value. The process then enters a loop starting at step S2, which checks if the device associated with authentication number N requires polling. If the answer is 'No', the process proceeds to step S10. If 'Yes', it moves to step S3, where a request is sent for input information data, followed by step S4, where the data is received. Step S5 then checks if the input data is appropriate. If 'No', it goes to S10. If 'Yes', step S6 checks if an application program is being executed for device N. If 'No', step S8 checks if a new application program needs to be activated. If 'No' to S8, it goes to S10. If 'Yes' to S8, step S9 activates the new program. If 'Yes' to S6, step S7 reflects the input in the application program. Both S7 and S9 lead to step S10. Step S10 checks if N is the last authentication number. If 'Yes', the process ends at the 'End' terminal. If 'No', step S11 changes N to the next number, and the process loops back to step S2.

FIG. 4

